

<110>Cerundolo, Vincenzo

<120> Derivatives of NY-ESO-1 Peptides and Uses Thereof

<130> LUD 5629.1

<140>

<141>

<150>US 09/440,621

<151>1999-11-15

<150> US 09/165,546

<151> 1998-10-02

<150> US 09/062,422

<151> 1998-04-17

<150> US 08/725,162

<151> 1996-10-03

<160> 18

<210>1

<211>11

<212>PRT

<213>Homo sapiens

<400> 1

Ser Leu Leu Met Trp Ile Thr Gln Cys Phe Leu

1

5

10

<210>2

<211>9

<212>PRT

<213>Homo sapiens

<400>2

Ser Leu Leu Met Trp Ile Thr Gln Cys

1

5

<210>3

<211>9

<212>PRT

<213>Homo sapiens

<400>3

Gln Leu Ser Leu Leu Met Trp Ile Thr

1 5

<210>4

<211>9

<212>PRT

<213>Homo sapiens

<400> 4

Tyr Met Asp Gly Thr Met Ser Gln Val

1 5

<210>5

<211>9

<212>PRT

<213>H. influenzae

<400>5

Gly Ile Leu Gly Phe Val Phe Thr Leu

1 5

<210>6

<211>9

<212>PRT

<213> Artificial sequence

<220>

<221>Mutagen

<222>9

<223>Synthesized. Position 9 is mutated from Cys to Ala

<400>6

Ser Leu Leu Met Trp Ile Thr Gln Ala

1 5

<210>7

<211>9

<212>PRT

<213>Artificial sequence

<220>

<221>Mutagen

<222>9

<223>Synthesized. Position 9 is mutated from Cys to Leu

<400>7

Ser Leu Leu Met Trp Ile Thr Gln Leu

1 5

<210>8  
 <211>9  
 <212>PRT  
 <213>Artificial sequence  
 <220>  
 <221>Mutagen  
 <222>9  
 <223>Synthesized. Position 9 is mutated from Cys to Leu  
 <400>8

Ser Leu Leu Met Trp Ile Thr Gln Val  
 1 5

<210>9  
 <211>34  
 <212>DNA  
 <213>Homo sapiens

<400> 9  
 gcaggatccc ggctcccatc.ctcagggtga gggc 34

<210>10  
 <211>9  
 <212>PRT  
 <213>Homo sapiens  
 <220>  
 <221>Mutagen  
 <222>9  
 <223> Syntheisized. Xaa is any amino acid, preferably one with a non-polar side chain,  
 such as Ala, Val, Leu, Ile, Pro, Phe, Met, Trp, or Gly  
 <400>10  
 Ser Leu Leu Met Trp Ile Thr Gln Xaa  
 1 5

<210>11  
 <211>10  
 <212>PRT  
 <213>Homo sapiens

<400>11  
 Ser Leu Leu Met Trp Ile Thr Gln Cys Phe  
 1 5 10

<210>12  
 <211>9  
 <212>PRT

<213>Artificial sequence

<220>

<221>Mutagen

<222>9

<223> Synthesized. At position 9, of SEQ ID NO:2,Cys is replaced by Ile

<400>12

Ser Leu Leu Met Trp Ile Thr Gln Ile

1

5

<210>13

<211>10

<212>PRT

<213>Artificial sequence

<220>

<221>Mutagen

<222>10

<223>Synthesized. At position 10, of SEQ ID NO: 11,Phe is replaced by Val

<400>13

Ser Leu Leu Met Trp Ile Thr Gln Cys Val

1

5

10

<210>14

<211>10

<212>PRT

<213>Artificial sequence

<220>

<221>Mutagen

<222>10

<223>Synthesized. At position 10 of SEQ ID NO: 11, Phe is replaced by Ile

<400>14

Ser Leu Leu Met Trp Ile Thr Gln Cys Ile

1

5

10

<210>15

<211>10

<212>PRT

<213>Artificial sequence

<220>

<221>Mutagen

<222>9..10

<223>Sythesized. At positions 9 and 10 of SEQ ID NO: 11, Cys Phe is replaced by Ala Leu

<400>15

Ser Leu Leu Met Trp Ile Thr Gln Ala Leu

1

5

10

<210>16  
<211>10  
<212>PRT  
<213>Artificial sequence  
<220>  
<221>Mutagen  
<222>9..10  
<223>Synthesized. At positions 9 and 10 of SEQ ID NO: 11, Cys Phe is replaced by Ala Ile  
<400>16  
Ser Leu Leu Met Trp Ile Thr Gln Ala Ile  
1 5 10

<210>17  
<211>10  
<212>PRT  
<213>Artificial sequence  
<220>  
<221>Mutagen  
<222>9  
<223>Synthesized. At position 9 of SEQ ID NO: 11, Cys is replaced by Ala  
<400>17  
Ser Leu Leu Met Trp Ile Thr Gln Ala Phe  
1 5 10

<210>18  
<211>10  
<212>PRT  
<213>Artificial sequence  
<220>  
<221>Mutagen  
<222>9..10  
<223>Synthesized. The first Xaa is Cys or Ala. The second Xaa is any amino acid, and is preferably Val, Phe, Ile or Leu  
<400>18  
Ser Leu Leu Met Trp Ile Thr Gln Xaa Xaa  
1 5 10